

Hexagonal magnesium hydroxide F5ER

Product Description

FR's hexagonal magnesium hydroxide F5ER is produced using seawater (magnesium chloride) as a raw material using a fully automated production control and monitoring system, combined with a proprietary homogenized continuous synthesis process. Stable raw material control and a unique production process result in a highly regular hexagonal flake morphology and moderate flake thickness. The patented silane coating process not only enhances the product's compatibility and dispersibility, but also provides excellent electrical and mechanical properties.

Chemical formula: $Mg(OH)_2$ CAS NO. 1309-42-8

Molecular weight: 58.32 EC/EINECS NO.215-170-3

Product Features

- High whiteness and stable color
- Fine particle size and even distribution
- High purity and no impurities
- High flame retardancy and low smoke emission
- Excellent thermal stability
- Excellent processing performance

Application Areas

- Wires and cables
- Polymer composite materials
- Battery materials

Physical and chemical property data

Chemical Properties	Unit	Products Standard	Testing Standard
Magnesium Hydroxide $Mg(OH)_2$	%	≥99.5	HG/T3607-2007
Calcium Oxide CaO	%	≤0.2	HG/T3607-2007
Iron Ion Fe	%	≤0.005	HG/T3607-2007
Chloride Ion Cl	%	≤0.05	HG/T3607-2007

Physical Properties	Unit	Products Standard	Testing Standard
Particle Size D50	μm	≤1.5	GB/T19077-2016
Particle Size D90	μm	≤3.5	GB/T19077-2016
Particle Size D97	μm	≤4.5	GB/T19077-2016
Specific Surface Area	m ² /g	4-6	GB/T19587-2017
Density	g/cm ³	2.3-2.4	GB/T4472-2011
Bulk Density	g/cm ³	0.30-0.40	HG/T3607-2007
Residue on 325-mesh sieve ≥45μm	%	≤0.05	HG/T3607-2007
Loss on Ignition	%	≥30	HG/T3607-2007
Moisture Content	%	≤0.3	HG/T3607-2007
Whiteness	%	≥97.0	HG/T3607-2007

Safety and Environmental Protection

Customers can request a Material Safety Data Sheet (MSDS) for this product from FR. The MSDS provides information on material handling, safety, and disposal, as well as compliance with applicable local health and safety regulations. This product complies with EU RoHS and REACH requirements and is not an internationally controlled hazardous chemical.

Packaging and storage

Packaging specifications: 20kg paper-plastic composite bags, 500kg and 600kg inner ribbed container bags

Storage conditions: dry and ventilated place, avoid direct sunlight

Transportation

Transportation Method	Packaging Method	Palletizing Method	Transport Quantity
Road Transport	20KG\Bag	560KG\Pallet	Based on vehicle size
	500KG\Bag	1000KG\Pallet	Based on vehicle size
	600KG\Bag	1200KG\Pallet	Based on vehicle size
20-foot Container	20KG\Bag	480KG\Pallet	9600KG
	450KG\Bag	900KG\Pallet	9000KG
40-foot High Cube Container	20KG\Bag	500KG\Pallet	20000KG
	600KG\Bag	1200KG\Pallet	24000KG

Processing performance and recommendations

Raw Material	Parts
EVA/PE	100
MDH	150
Antioxidant 1010	0.1
Antioxidant 168	0.1
Silicone Powder	0.1
Performance Metrics	Data
Tensile Strength/MPa	14.0
Elongation at Break/%	152.2
Oxygen Index/%	36.4
Volume Resistivity at 20°C/Ω.cm	9.20E14
Torque/Nm	10.8

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The specifications and data presented in this document are based on our current level of technical knowledge and practical experience and are for reference only. Users are responsible for testing our products to verify their suitability for their intended process and application, and to verify their suitability for the intended purpose. Further application and processing of our products are beyond our control. Therefore, our liability for the products we provide is limited to the portion delivered and used by you. We assume no liability for indirect losses incurred in the production process using our products as raw materials. Our Marketing Department, Technical Support, and Customer Service Center are happy to provide you with product consultation and application technical services. Please feel free to contact us by email or phone.

